

Curriculum Vitae

Personal Details

Name: **Mr Sam Thomas Carr**
Date of Birth: 13th January 1978
Place of Birth: Edinburgh, Scotland
Nationality: British
Marital Status: Single

Education

1989-1995 Craigmount High School, Edinburgh
1993-1995 Edinburgh University, part time with school doing non-graduating courses in mathematics, physics and geophysics.
1995-1999 St John's College, Oxford. Gained a first in an MPhys (Physics)
1999-2001 St John's College, Oxford. Began DPhil in Theoretical Physics under Alexei Tsvetik.
2001-present Continuing Oxford DPhil under Alexei Tsvetik, but residing and working at Brookhaven National Lab, New York.

Vacation Employment

1998 Edinburgh Parallel Computing Center : Summer Student project on resolving crystal structure from X-ray powder diffraction.

Prizes and Awards

1994 Top of year prize for first-year maths at Edinburgh University
1995 Top of year prize for second-year physics at Edinburgh University
1996-1999 St John's College, Oxford : Scholar for distinction in preliminary exams

Publications

1. S.T.Carr and A.M.Tsvelik, Superconductivity and Charge Density Wave in a Quasi-One-Dimensional Spin Gap System, Phys Rev B 65, 195121 (2002)
2. S.T.Carr and A.M.Tsvelik, Spectrum and correlation functions of a quasi-one-dimensional quantum Ising model, PRL (submitted) cond-mat/0212248 (2003)

Presentations at Conferences and Meetings

December 2001 “Superconductivity and Charge Density Wave in a Quasi-One-Dimensional Spin Gap System”, 30 minute talk presented at ICMS meeting on “Classical and Quantum Integrable Systems”.

July 2002 “Superconductivity and Charge Density Wave in a Quasi-One-Dimensional Spin Gap System”, poster presented at Trieste workshop on “Emergent Materials and highly correlated electrons”.

Other Qualifications

2000 Diploma in piano performance from the Associated Board of the Royal Schools of Music (ABRSM)